TUNER / PRE AMPLIFIER

MODEL TP-770

SPECIFICATIONS

Tuner section

FM

Tuning frequency range	87.5 to 108MHz
Usable sensitivity	13.2dBf [E/U], 17.2dBf [V] (IHF, 3% THD)
Quieting sensitivity	
Mono	17.2dBf [E/U], 21.2dBf [V]
Stereo	31.2dBf [E/U], 35.2dBf [V]
S/N ratio	
Mono	70dB [E/U], 65dB [V] (IHF)
Stereo	60dB (IHF)
Frequency response	30Hz to 15kHz (±1dB)
Total harmonic distortion	
Mono	0.5% (at 1kHz)
Stereo	0.3% [E/U], 0.7% [V] (at 1kHz)
Selectivity	55dB (±400kHz)
Image rejection	50dB
Stereo separation	45dB (at 1kHz)
Capture ratio	2dB
AM suppression	60dB
Spurious rejection	55dB
IF rejection	90dB
Output level	500mV [E/U], 450mV [V] (100% MOD)

MW

Tuning frequency range	531 to 1602kHz (9kHz step) 530 to 1710kHz [U] (10kHz step)
Usable sensitivity	500μVm
S/N ratio	36dB
Selectivity	15dB
Image rejection	37dB
IF rejection	40dB
Output level	150mV (30% MOD)

LW

Tuning frequency range	144 to 351kHz [E/U], 144 to 288kHz [V] (1kHz step)
Usable sensitivity	800μVm
S/N ratio	28dB
Selectivity	17dB
Image rejection	33dB
IF rejection	40dB
Output level	150mV (30% MOD)

Pre amplifier Section

Input sensitivity	
PHONO	3mV/47 ohms
VCR/AUX	230mV/22k ohms
Output level	VCR 150mV/1k ohms
S/N ratio	
PHONO	63dB
except PHONO	77dB
Residual noise	0.1mV
Channel separation	65dB
Frequency response	10Hz to 100kHz (10Hz : −4dB, 100kHz : −3dB)
Super bass effects	+6dB/50Hz (SB-1) +12dB/50Hz (SB-2)

[GENERAL]

Power consumption	10W
Dimension	270(W) x 61(H) x 304(D) mm
Weight	1.8kg

Standard accessories

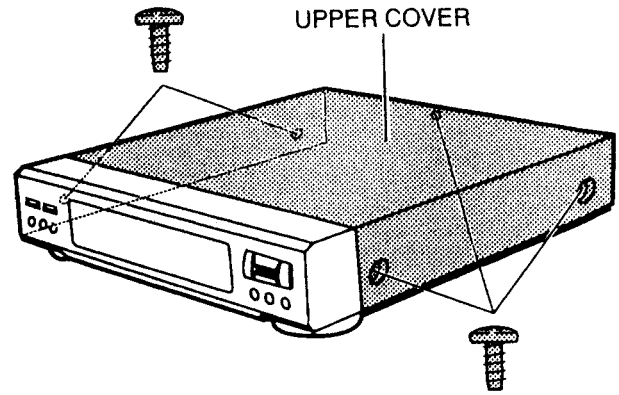
FM long wire antenna	x1
AM loop antenna	x1
Plug adaptor	x1

*For improvement purposes, specifications and design are subject to change without notice.

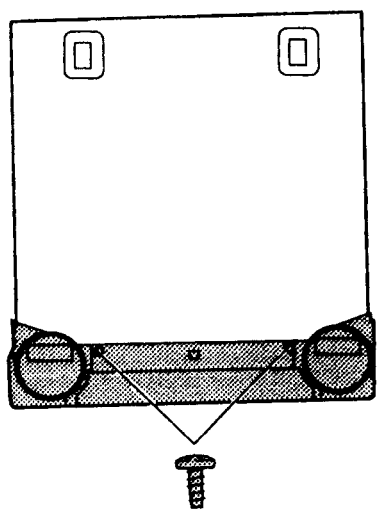
I. DISASSEMBLY

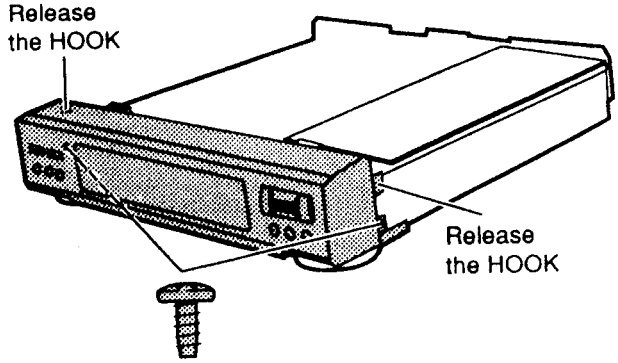
In case of trouble etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order.

1. Removal of the UPPER COVER



2. Removal of the FRONT PANEL





II. PRINCIPAL PARTS LOCATION

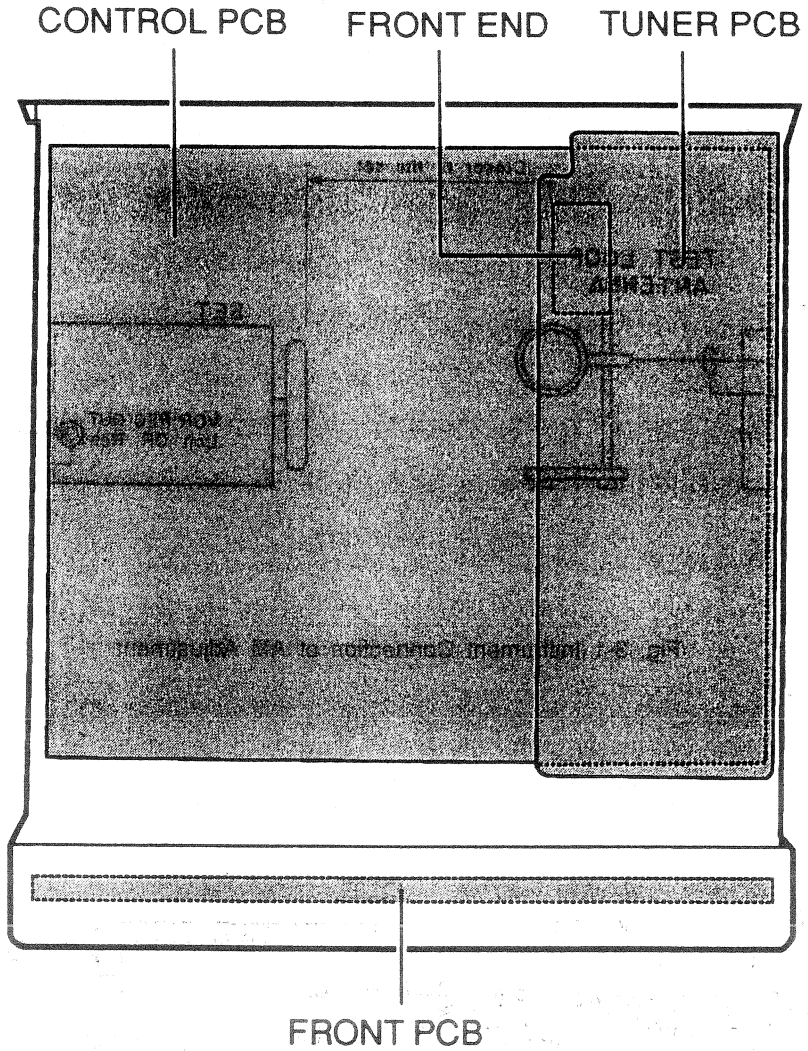


Fig. 2-1

III. ADJUSTMENT

3-1. INSTRUMENT CONNECTIONS

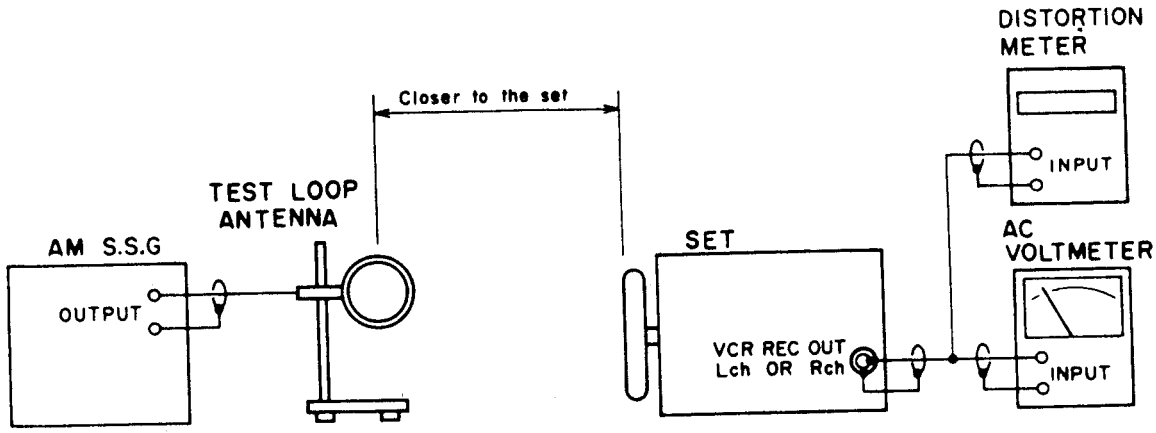


Fig. 3-1 Instrument Connection of AM Adjustment

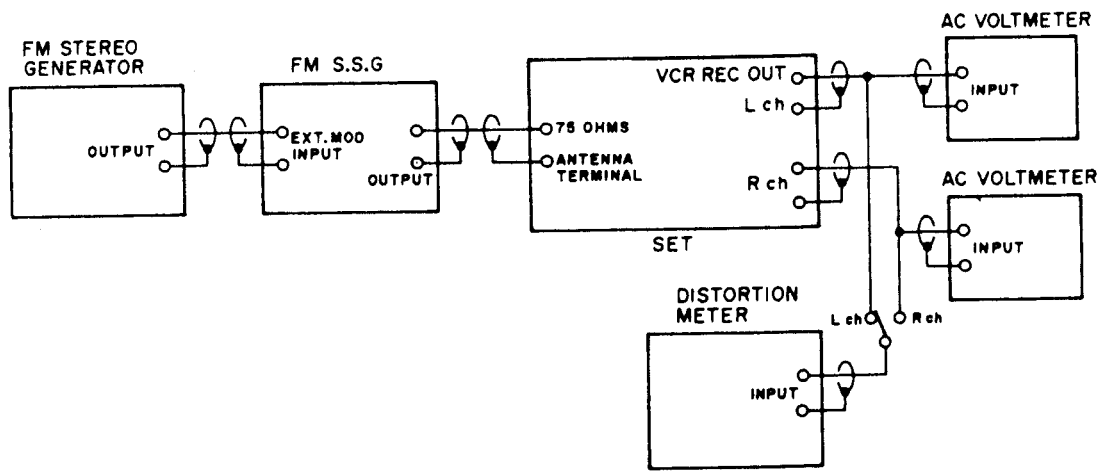


Fig. 3-2 Instrument Connection of FM Adjustment

NOTE:
Before making adjustment, please set the input to "TUNER" mode by pressing the input SELECTOR button on the TP-770, then select the tuner band with the BAND button according to the adjustment procedure.

3-2.HOW TO CALL THE PRESET FREQUENCY FOR THE ADJUSTMENT

Preset frequency can be called with the "TUNER/CD 10 KEY" buttons on the remote control (Press the RESET button on the rear panel first to initialize the previous memory). The internal frequency preset memory is set as shown below.

Initial preset frequency for adjustment and inspection.

PRESET	PRODUCT DESTINATION	
ch No.	E, B, U, S	V
1	FM 98.00 MHz AUTO	FM 98.00 MHz AUTO
2	FM 88.00 MHz MONO	FM 88.00 MHz MONO
3	FM 108.00 MHz MONO	FM 108.00 MHz MONO
4	LW 162 kHz	LW 162 kHz
5	LW 297 kHz	LW 288 kHz
6	LW 198 kHz	LW 198 kHz
7	MW 1404 kHz	MW 1404 kHz
8	MW 603 kHz	MW 603 kHz
9	MW 999 kHz	MW 999 kHz
10	LW 351 kHz	LW 288 kHz
11	FM 87.50 MHz MONO	MW 1602 kHz
12	FM 90.00 MHz MONO	FM 90.00 MHz MONO
13	FM 106.00 MHz MONO	FM 106.00 MHz MONO
14	MW 531 kHz	MW 531 kHz
15	MW 1602 kHz	MW 1602 kHz
16	LW 144 kHz	LW 144 kHz
17	LW 288 kHz	
18 to 30	FM 87.50 MHz AUTO	FM 87.50 MHz AUTO

NOTE : ABOUT TUNING STEP CONVERSION ([U] version only)
The MW frequency band of this tuner is preset to 9kHz tuning intervals. However, the frequencies of MW broadcasts in some countries are set at 10kHz intervals.
If your country uses 10kHz tuning intervals the following tuning step conversion is necessary before you can tune in stations.

1. Turn the amplifier's power on.
2. Press the BAND button until the AM indicator appears on the tuner's FL display
3. Press and hold the BAND button for over 5 seconds until "AM 1710kHz" appears on the FL display. Tuning intervals will now be set to 10kHz.

※ LW frequency band can not be selected with BAND button at MW 10kHz tuning intervals mode.

To reset the tuner to 9kHz tuning intervals :
■ Press the RESET button located on the tuner's rear panel with a ball point pen etc.

TP-770

3-3. ADJUSTMENT

NOTE: 1. Set the S.S.G. to 1kHz, 75kHz deviation for [U], [S], [B] or [E] model, 1 kHz, 40 kHz deviation for [V] model.

STEP	ADJUSTMENT ITEM
1.	SSG FREQ. & OUTPUT LEVEL
2.	SET Tuning FREQ.
3.	ADJ. Part
4.	REMARKs (•) & RESULT (*)

Test Point — Adjustment Part

AM

2 LW SENSITIVITY

1. 162kHz, 75dBμ (Low) and 297kHz <288kHz>, 75dBμ (High)
2. 162kHz (preset 4 ch) 297kHz <288kHz> (preset 5 ch)
3. T202 (Low), VC202 (High)
4. • Connect the milli-voltmeter to VCR/REC OUT.
   * Maximum output level and minimum distortion.
   * For best result, repeat Low and High adjustments several times.

NOTE: 1. Set the S.S.G to 1kHz 30% modulation on each adjustment.
2. Frequencies indicated in < > are for the [V] model.

1 LW OSC

1. –
2. 351kHz <288kHz> (preset 10 ch)
3. T204
4. • Connect the Digital DC Voltmeter between TP1 and GND.
   * 8.2 ± 0.1V <5.75 ± 0.1V>.

FM

3 DISTORTION (STEREO)

1. 98.0MHz, 60dBμ (STEREO L or R channel only)
2. 98.0MHz (FM AUTO)
3. IFT (FRONT END)
4. • Connect the distortion meter to VCR/REC OUT.
   * Minimum Distortion (Never turn the IFT more than 90°)

2 FM TUNED INDICATOR

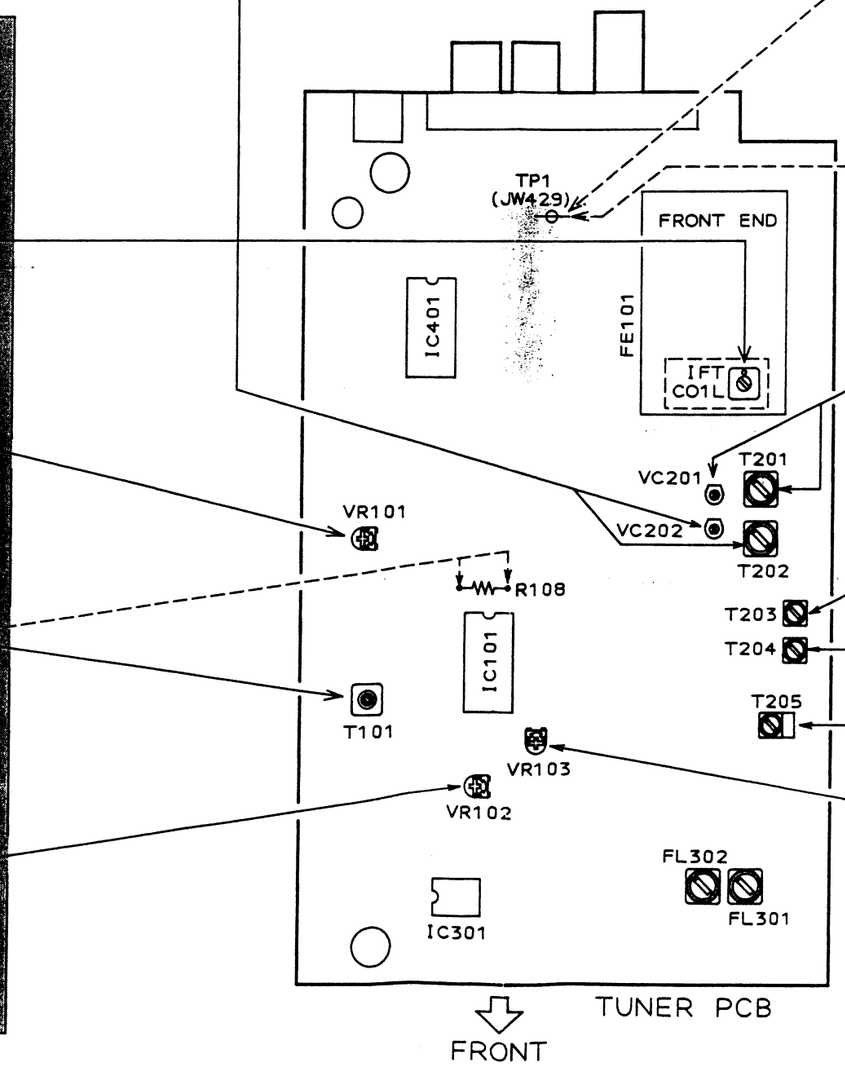
1. 98.0MHz, 18dBμ (MONO)
2. 98.0MHz
3. Tuning indicator on the front panel, VR101.
4. * Tuning indicator is lit.

1 CENTER VOLTAGE

1. 98.0MHz, 60dBμ (MONO)
2. 98.0MHz
3. T101
4. • Connect the DC Digital Voltmeter to both ends of R108.
   * 0 ± 50mV

4 STEREO SEPARATION

1. 98.0MHz, 60dBμ (STEREO L or R channel only)
2. 98.0MHz (FM AUTO)
3. VR102
4. • Connect the milli-voltmeter to VCR/REC OUT.
   * Minimum output level for opposite channel.



6 MW SENSITIVITY

1. 603kHz, 65dBμ (Low) or 1,404kHz, 65dBμ (High)
2. 603kHz (Low), (preset 8 ch) 1,404kHz (High), (preset 7 ch)
3. T201 (Low), VC201 (High)
4. • Connect the milli-voltmeter to VCR/REC OUT.
   * Maximum output level and minimum distortion.
   * For best result, repeat Low a High adjustments several times.

5 MW OSC

1. –
2. 1,404kHz (preset 7 ch)
3. T203
4. • Connect the Digital DC Voltmeter between TP1 and GND.
   * 6.7 ± 0.1V.

3 AM IF

1. 162kHz, 65dBμ
2. 162 kHz
3. T205
4. • Connect the milli-voltmeter to VCR/REC OUT.
   * Maximum output level, minimum distortion.

4 AM TUNED INDICATOR

1. 198kHz, 62dBμ
2. 198kHz
3. Tuning indicator on the front panel, VR103.
4. * Tuning indicator is lit.

PRINCIPAL PARTS LOCATION

TRANSISTORs

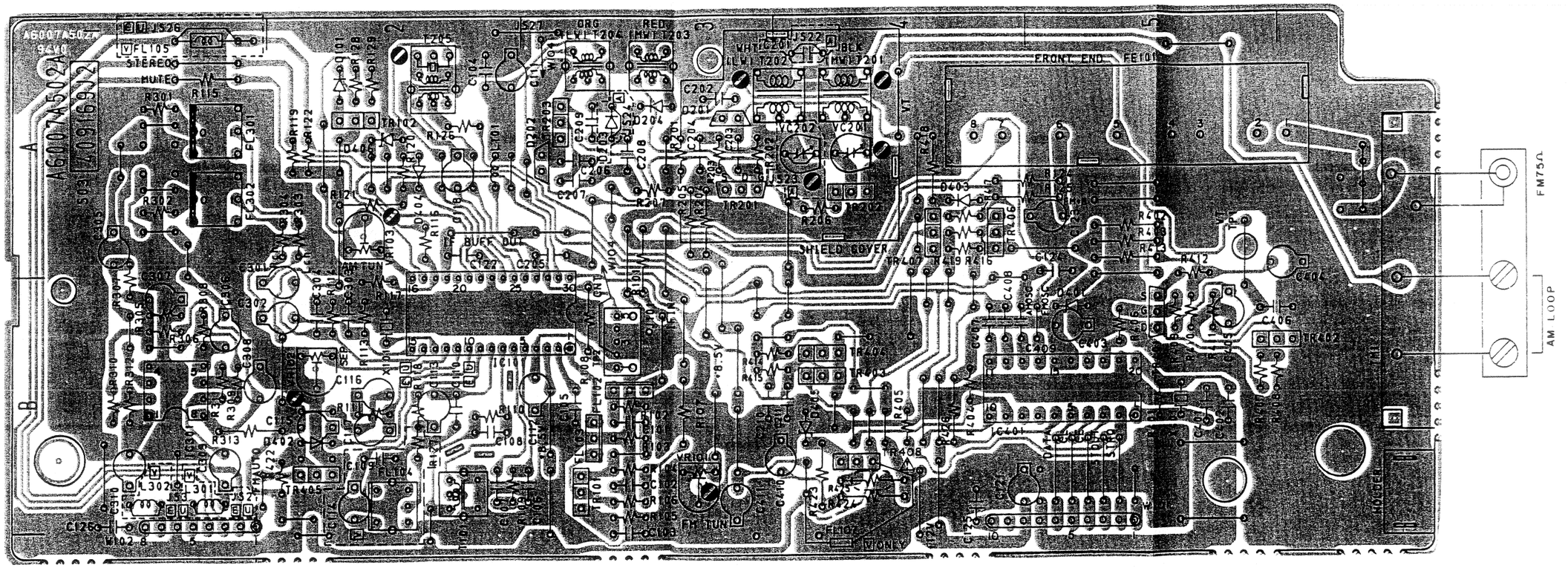
TR101	B3	TR405	B2
TR102	A2	TR406	A4
TR201	A3	TR407	A4
TR202	A4	TR408	B4
TR203	A3		
TR401	B5	**ICs**	
TR402	B5,6	IC101	B2,3
TR403	B4	IC301	B1
TR404	B4	IC401	B4,5

CONNECTOR

J101 ..... B3

WIREs

W101 ..... B5
W102 ..... B1



TUNER PCB A6007A502AJ2

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.

WARNING. ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

IV. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of the part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

Ref. No.	Part No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] :AAL (U.S.A) [S] :SAA (Australia)
[B] :BEAB (England) [U] :U/T (Universal Area)
[C] :CSA (Canada)
[E] :CEE (Europe) [V] :VDE (Germany)
[J] :JPN (Japan) [Y] :Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

⚠ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	*EC-410588J	C DOUBLE FYD0H474Z 5.5DC
2	ED-410423J	D LED SEL4914D D,Y1 D,Y2ORANGE
3	ED-307572	D SILICON H 1SS131
4	ED-624903	D SILICON H 1S2473
5	*ED-511907	D SILICON 1N4002 100/1.0A
6	ED-372893	D VARACTOR SVC321SPA A DBL
7	ED-397289J	D ZENER H HZS20-2
8	ED-367576	D ZENER H HZS5.6B2J
9	ED-389688J	D ZENER H HZS5B2
10	ED-370786	D ZENER H HZS9.1B2J
11	ED-346559	D ZENER H HZ12B2L
12	ED-346560	D ZENER H HZ12B3L
13	ED-337990	D ZENER H HZ27-1L
14	ED-329058	D ZENER H HZ5 C1
15	ED-346531	D ZENER H HZ7A2L
16	ED-351418	D ZENER H HZ7B1L
17	ED-346534	D ZENER H HZ7C1L
18	EE-408686J	FRONT END FE415-G10
19	EH-364919	COMP R RKC8BS 473J
20	EH-394759J	FILTER CE SFE10.7MS2GK-A [U,E]
21	EH-338338	FILTER CE SFE10.7MS3GK-A [V]
22	EH-410605J	FILTER EMI FBA04HA900KE-00 F12 [V]
23	EH-405199J	FILTER LC LP K7-J1YD-0170 [V]
24	EH-408815J	FILTER LC LP 42B-5226-03
25	EI-382660J	IC BA15218-DX
26	EI-387938J	IC HD74LS05P
27	EI-408673J	IC LA1851N
28	EI-354951	IC LM7000N
29	EI-408675J4	IC M38173M6-155FP MXA1TP4
30	EI-213390	IC NJM4558D
31	EI-400756J	IC NJM4558L-B
32	EI-408672J	IC S-80721AN
33	EI-302233	IC TC4051BP
34	EI-332259	IC TC4052BP
35	EI-200573	IC TC4053BP
36	EI-408674J	OSC CE CSB456F15 19.000KHZ
37	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
38	EI-368825M	OSC X'TAL C-002RX 32.768KHZ
39	EI-408814M	OSC X'TAL HC-49/U 7200KHZ
40	EM-408409J	IND FL 10-MT-44GK CHARACTER
41	EO-408689M	COIL DET 1 499HNAS0078Z10.7MHZ
42	EO-408687J	COIL IFT BCFAZ-024
43	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
44	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH
45	EO-408808M	COIL VARI 2 MRHNF-45614A
46	EO-408809M	COIL VARI 2 MRZNF-45615A
47	*ER-326169	R FUSE H S10 ERD2FC 1/4W 22R0G
48	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
49	ER-365753	R MF H RK14 1/4W 226J
50	*ER-386215J	R OMF H S12 FS 1W 220J
51	*ER-408692J	R OMF H S15 FS 2W 390J
52	ES-362883	SW TACT SKHHLM
53	ES-394818J	SW TACT SOR-123HS T05
54	ET-411995J	DETECTOR GP1U581X
55	ET-356336	TR DTA114ES
56	ET-369248	TR DTA114YS
57	ET-354370	TR DTA124ES
58	ET-353897	TR DTC114ES
59	ET-354371	TR DTC124ES
60	ET-373392	TR DTC124XS
61	ET-354094	TR DTC144WS
62	ET-349458	TR FET 2SK192A Y
63	ET-337759	TR FET 2SK246 GR
64	ET-353899	TR 2SA1317 S,T,U
65	*ET-366365	TR 2SB1185 E,F
66	ET-397160J	TR 2SC3330 R,S,T,U,V
67	ET-394735J	TR 2SC3792 T05
68	ET-356437	TR 2SC930 D2,E,F
69	*ET-366581	TR 2SD1762 E,F
70	*ET-373025	TR 2SD1944 J1,J2,K
71	ET-401091J	TR 2SD2144S U,V,W T05
72	ET-396072J	TR 2SD2159 V,W
73	EW-408684J	WIRE ASSY HFG0704-0801 L600 4P
74	EW-408682J1	WIRE ASSY HFG07115101 L630 11P
75	EW-408678J	WIRE ASSY HFG07157501 L600 15P
76	EW-408679J	WIRE ASSY 52305-1411 L=650 14P
77	EW-408683J	WIRE ASSY 52305-1510 L=300 15P
78	*EZ-412448J	BATTERY LITHIUM VL2330 IHF

2. P.C BOARD BLK

Ref. No.	Part No.	Description
1A	BA-A6007T030G	ML PC (#) TU-PRE BLK TP-750 (U)/ML
1B	BA-A6007T030H	ML PC (#) TU-PRE BLK TP-750 (E)/ML
1C	BA-A6007T035C	ML PC (#) TU-PRE BLK TP-770 (V)/ML
2	BA-A6009T060A	ML PC SYSCON BLK TP-750/ML

PC (#) TU-PRE BLK CONSISTS OF FOLLOWING P.C BOARDS.

- TUNER P.C BOARD
- CONTROL P.C BOARD

3. TUNER P.C BOARD

Ref. No.	Part No.	Description
D101	ED-307572	D SILICON H 1SS131
D201	ED-372893	D VARACTOR SVC321SPA A DBL
D202	ED-372893	D VARACTOR SVC321SPA A DBL
D203	ED-307572	D SILICON H 1SS131
D204	ED-307572	D SILICON H 1SS131
D401	ED-367576	D ZENER H HZS5.6B2J
D402	ED-307572	D SILICON H 1SS131
D403	ED-307572	D SILICON H 1SS131
D404	ED-307572	D SILICON H 1SS131
D405	ED-370786	D ZENER H HZS9.1B2J
D406	ED-389688J	D ZENER H HZS5B2
FE101	EE-408686J	FRONT END FE415-G10
FL102A	EH-394759J	FILTER CE SFE10.7MS2GK-A [U,E]
FL102B	EH-338338	FILTER CE SFE10.7MS3GK-A [V]
FL103A	EH-394759J	FILTER CE SFE10.7MS2GK-A [U,E]
FL103B	EH-338338	FILTER CE SFE10.7MS3GK-A [V]
FL104	EH-405199J	FILTER LC LP K7-J1YD-0170 [V]
FL105	EH-410605J	FILTER EMI FBA04HA900KE-00 F12 [V]
FL107	EH-410605J	FILTER EMI FBA04HA900KE-00 F12 [V]
FL301	EH-408815J	FILTER LC LP 42B-5226-03
FL302	EH-408815J	FILTER LC LP 42B-5226-03
IC101	EI-408673J	IC LA1851N
IC301	EI-213390	IC NJM4558D
IC401	EI-354951	IC LM7000N
L101	EO-357539	COIL FIX 1 EL0606RA T05 222K
L301	EO-353588	COIL FIX 1 LAP02 F05 2R2K [V]
L302	EO-353588	COIL FIX 1 LAP02 F05 2R2K [V]
R107	ER-324184	R CB H S10 FS RDS 1/4W 121J
R108	ER-333387	R CB H S10 FS RDS 1/4W 223J
R425	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
T101	EO-408689M	COIL DET 1 499HNAS0078Z10.7MHZ
T201	EO-408808M	COIL VARI 2 MRHNF-45614A
T202	EO-408809M	COIL VARI 2 MRZNF-45615A
T203	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
T204	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH
T205	EO-408687J	COIL IFT BCFAZ-024
TM1	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
TR101	ET-356437	TR 2SC930 D2,E,F
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR201	ET-349458	TR FET 2SK192A Y
TR202	ET-394735J	TR 2SC3792 T05
TR203	ET-353897	TR DTC114ES
TR401	ET-337759	TR FET 2SK246 GR

Ref. No.	Part No.	Description
TR402	ET-397160J	TR 2SC3330 R,S,T,U,V
TR403	ET-354094	TR DTC144WS
TR404	ET-354094	TR DTC144WS
TR405	ET-354094	TR DTC144WS
TR406	ET-353899	TR 2SA1317 S,T,U
TR407	ET-353899	TR 2SA1317 S,T,U
TR408	ET-396072J	TR 2SD2159 V,W
VC201	EC-337603	C S-FIX H VCT51F 5.5-30
VC202	EC-356284	C S-FIX H VCT51G 7.5- 50
VR101	EV-358829	R S-FIX H RH0615C 0.10W 223
VR102	EV-356576	R S-FIX H RH0615C 0.10W 472
VR103	EV-356576	R S-FIX H RH0615C 0.10W 472
X101	EI-408674J	OSC CE CSB456F15 19.000KHZ
X401	EI-408814M	OSC X'TAL HC-49/U 7200KHZ

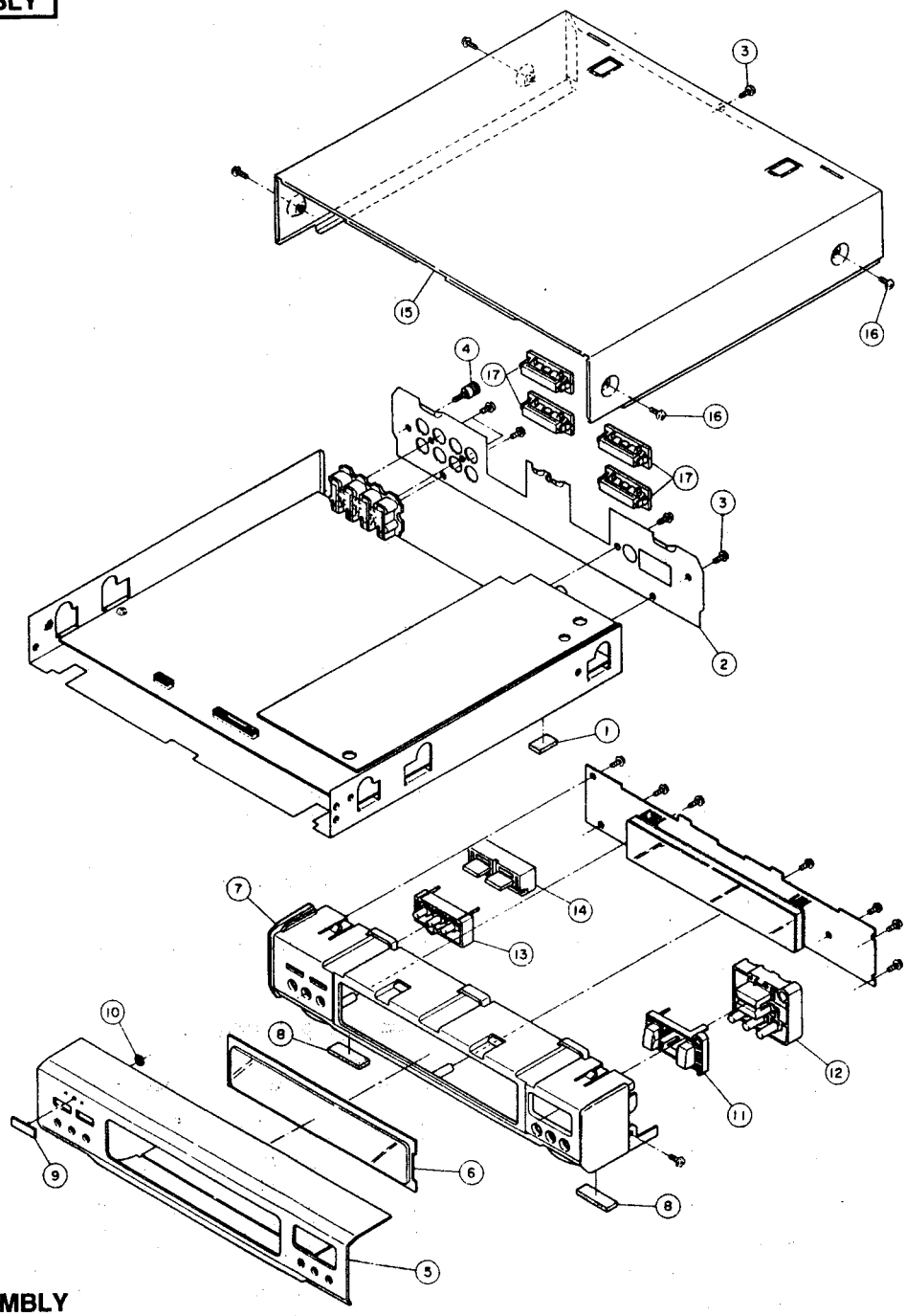
4. CONTROL P.C BOARD

Ref. No.	Part No.	Description
BT801	*EZ-412448J	BATTERY LITHIUM VL2330 IHF
C764	*EC-346868	C CE V T05 F 473Z 50DC
C765	*EC-346868	C CE V T05 F 473Z 50DC
C766	*EC-346868	C CE V T05 F 473Z 50DC
C767	*EC-346868	C CE V T05 F 473Z 50DC
C801	*EC-410588J	C DOUBLE FYD0H474Z 5.5DC
D701	ED-346534	D ZENER H HZ7C1L
D702	ED-346534	D ZENER H HZ7C1L
D751	*ED-511907	D SILICON 1N4002 100/1.0A
D752	*ED-511907	D SILICON 1N4002 100/1.0A
D753	*ED-511907	D SILICON 1N4002 100/1.0A
D754	*ED-511907	D SILICON 1N4002 100/1.0A
D755	ED-346559	D ZENER H HZ12B2L
D756	ED-346560	D ZENER H HZ12B3L
D757	*ED-511907	D SILICON 1N4002 100/1.0A
D758	*ED-511907	D SILICON 1N4002 100/1.0A
D759	*ED-511907	D SILICON 1N4002 100/1.0A
D760	ED-337990	D ZENER H HZ27-1L
D761	*ED-511907	D SILICON 1N4002 100/1.0A
D762	*ED-511907	D SILICON 1N4002 100/1.0A
D763	ED-351418	D ZENER H HZ7B1L
D764	ED-346531	D ZENER H HZ7A2L
D765	*ED-511907	D SILICON 1N4002 100/1.0A
D766	ED-511907	D SILICON 1N4002 100/1.0A
D767	ED-511907	D SILICON 1N4002 100/1.0A
D768	ED-329058	D ZENER H HZ5 C1
D801	ED-307572	D SILICON H 1SS131
D802	ED-307572	D SILICON H 1SS131
D803	ED-307572	D SILICON H 1SS131
D804	ED-307572	D SILICON H 1SS131
D805	ED-307572	D SILICON H 1SS131
D806	ED-307572	D SILICON H 1SS131
D807	ED-307572	D SILICON H 1SS131 [U]
D808	ED-307572	D SILICON H 1SS131 [V]
D813	ED-307572	D SILICON H 1SS131
D814	ED-511907	D SILICON 1N4002 100/1.0A
D815	ED-307572	D SILICON H 1SS131
D821	ED-397289J	D ZENER H HZS20-2
D822	ED-307572	D SILICON H 1SS131
FL106	EH-410605J	FILTER EMI FBA04HA900KE-00 F12 [V]
IB801	EH-364919	COMP R RKC8BS 473J
IC501	EI-302233	IC TC4051BP
IC502	EI-200573	IC TC4053BP
IC601	EI-302233	IC TC4051BP
IC602	EI-200573	IC TC4053BP
IC701	EI-382660J	IC BA15218-DX
IC702	EI-400756J	IC NJM4558L-B
IC703	EI-400756J	IC NJM4558L-B
IC704	EI-332259	IC TC4052BP
IC801	EI-408675J4	IC M38173M6-155FP MXA1TP4
IC802	EI-387938J	IC HD74LS05P
IC803	EI-387938J	IC HD74LS05P
IC804	EI-408672J	IC S-80721AN
J11A	EJ-408671J	PIN J T6592AABB W/SHIELD 8P [U,E]
J11B	EJ-408670J	PIN J T6388-AABC 8P [V]
R751	*ER-386215J	R OMF H S12 FS 1W 220J
R752	*ER-386215J	R OMF H S12 FS 1W 220J
R759	*ER-386215J	R OMF H S12 FS 1W 220J
R764	*ER-326169	R FUSE H S10 ERD2FC 1/4W 22R0G
R765	*ER-408692J	R OMF H S15 FS 2W 390J
R809	ER-365753	R MF H RK14 1/4W 226J
TR501	ET-394735J	TR 2SC3792 T05
TR512	ET-397160J	TR 2SC3330 R,S,T,U,V
TR601	ET-394735J	TR 2SC3792 T05
TR612	ET-397160J	TR 2SC3330 R,S,T,U,V
TR752	*ET-373025	TR 2SD1944 J1,J2,K
TR753	ET-353899	TR 2SA1317 S,T,U
TR754	*ET-366365	TR 2SB1185 E,F
TR755	ET-353899	TR 2SA1317 S,T,U
TR756	*ET-366365	TR 2SB1185 E,F
TR757	ET-397160J	TR 2SC3330 R,S,T,U,V
TR758	*ET-366581	TR 2SD1762 E,F
TR759	ET-397160J	TR 2SC3330 R,S,T,U,V
TR760	ET-353899	TR 2SA1317 S,T,U
TR761	ET-353899	TR 2SA1317 S,T,U
TR801	ET-354371	TR DTC124ES
TR802	ET-354371	TR DTC124ES
TR803	ET-354371	TR DTC124ES
TR804	ET-354371	TR DTC124ES
TR805	ET-354371	TR DTC124ES
TR806	ET-353897	TR DTC114ES
TR807	ET-354371	TR DTC124ES
TR808	ET-354370	TR DTA124ES
TR809	ET-373392	TR DTC124XS
TR810	ET-369248	TR DTA114YS
TR811	ET-353897	TR DTC114ES
TR812	ET-354370	TR DTA124ES
TR815	ET-353899	TR 2SA1317 S,T,U
TR816	ET-354371	TR DTC124ES
TR817	ET-356336	TR DTA114ES
TR818	ET-401091J	TR 2SD2144S U,V,W T05
TR819	ET-401091J	TR 2SD2144S U,V,W T05
TS801	ES-362883	SW TACT SKHHLM
W1	EW-408678J	WIRE ASSY HFG07157501 L600 15P
W2	EW-408679J	WIRE ASSY 52305-1411 L=650 14P
W3	EW-408682J1	WIRE ASSY HFG07115101 L630 11P
W4	EW-408683J	WIRE ASSY 52305-1510 L=300 15P
W5	EW-408684J	WIRE ASSY HFG0704-0801 L600 4P
X801	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
X802	EI-368825M	OSC X'TAL C-002RX 32.768KHZ

5. FRONT P.C BOARD

Ref. No.	Part No.	Description
D851	ED-624903	D SILICON H 1S2473
D852	ED-624903	D SILICON H 1S2473
D853	ED-624903	D SILICON H 1S2473
D854	ED-624903	D SILICON H 1S2473
D855	ED-624903	D SILICON H 1S2473
D856	ED-624903	D SILICON H 1S2473
D857	ED-624903	D SILICON H 1S2473
D861	ED-410423J	D LED SEL4914D D,Y1 D,Y2ORANGE
D862	ED-410423J	D LED SEL4914D D,Y1 D,Y2ORANGE
HS851	ET-411995J	DETECTOR GP1U581X
IN851	EM-408409J	IND FL 10-MT-44GK CHARACTER
TR851	ET-353897	TR DTC114ES
TS851	ES-394818J	SW TACT SOR-123HS T05
TS852	ES-394818J	SW TACT SOR-123HS T05
TS853	ES-394818J	SW TACT SOR-123HS T05
TS854	ES-394818J	SW TACT SOR-123HS T05
TS855	ES-394818J	SW TACT SOR-123HS T05
TS856	ES-394818J	SW TACT SOR-123HS T05
TS857	ES-394818J	SW TACT SOR-123HS T05
TS858	ES-394818J	SW TACT SOR-123HS T05
TS859	ES-394818J	SW TACT SOR-123HS T05
TS860	ES-394818J	SW TACT SOR-123HS T05
TS861	ES-394818J	SW TACT SOR-123HS T05
TS862	ES-394818J	SW TACT SOR-123HS T05
W852	EW-408817J2	CORD A6007 L=160 13P
W853	EW-408817J2	CORD A6007 L=160 13P
W854	EW-408816J2	CORD A6007 L=160 9P

FINAL ASSEMBLY



6. FINAL ASSEMBLY

Ref. No.	Part No.	Description
1	SA-407840M	CUSHION FOOT REAR (SG)
2A	SP-411712M	PANEL REAR TP-770 (U) (SG)
2B	SP-411713M	PANEL REAR TP-770 (E) (SG)
2C	SP-411714M	PANEL REAR TP-770 (V) (SG)
3	ZS-394412J	BT BID30X08STL BZN PROJECTION
4	EJ-393745J	TERMINAL W/SCREW UB-0132
5	SP-411718J	PANEL FRONT-TP (B)
6	SE-411719M	WINDOW FLD-TP (B) (SG)
7	SE-407956M1	ESCUTCHEON FRONT (SG)
8	SA-394136M	CUSHION FOOT (SG)
9	SM-409218J	NAME PLATE AKAI-S
10	ZW-340648	RING CS 190STL PKR
11	SB-407961M1	BUTTON FR (SG)
12	SB-407962M1	BUTTON OP (SG)
13	SB-407965M	BUTTON MEMO (SG)
14	SB-407966M	BUTTON SOURCE (SG)
15	SP-407980M1	COVER UPPER-TP (SG)
16	ZS-394414J	BT BID30X08STL BZN
17	SZ-407909M	WIRE HOLDER (SG)

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

7. ACCESSARY

Ref. No.	Part No.	Description
1	EE-394420M1	ANT LOOP LA-75
2	EE-396107M	ANT WIRE FM A3063
3	EJ-394417J	SOCKET COAX HXC 0526-01-010

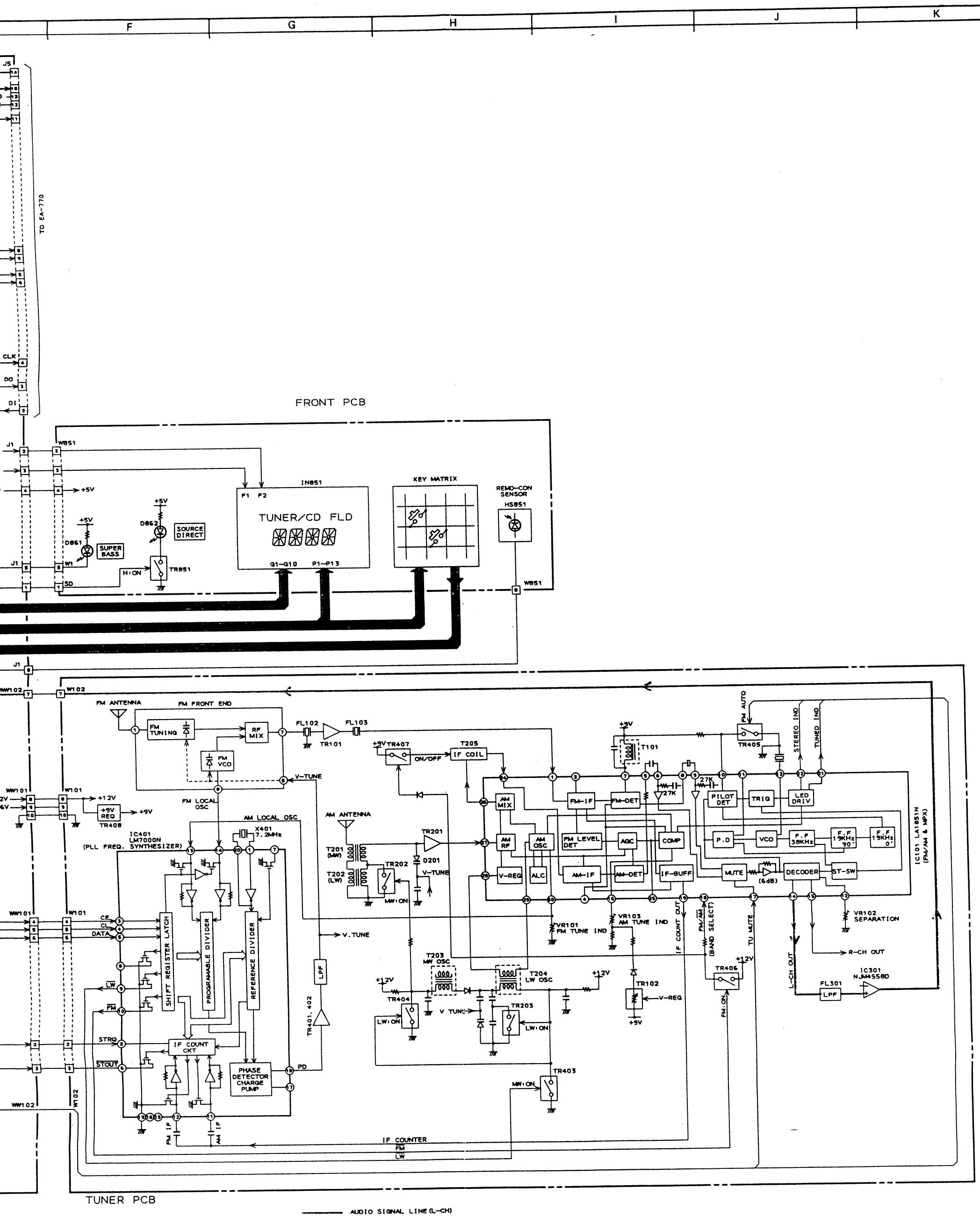
INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BAA6007T030G	2-1A	EH394759J	3-FL102A	ET353899	3-TR406		
BAA6007T030H	2-1B	EH394759J	3-FL103A	ET353899	3-TR407		
BAA6007T035C	2-1C	EH405199J	3-FL104	ET353899	4-TR753		
BAA6009T060A	2-2	EH408815J	3-FL301	ET353899	4-TR755		
EC337603	3-VC201	EH408815J	3-FL302	ET353899	4-TR760		
EC346868	4-C764	EH410605J	3-FL105	ET353899	4-TR761		
EC346868	4-C765	EH410605J	3-FL107	ET353899	4-TR815		
EC346868	4-C766	EH410605J	4-FL106	ET354094	3-TR403		
EC346868	4-C767	EI200573	4-IC502	ET354094	3-TR404		
EC356284	3-VC202	EI200573	4-IC602	ET354094	3-TR405		
EC410588J	4-C801	EI213390	3-IC301	ET354370	4-TR808		
ED307572	3-D101	EI302233	4-IC501	ET354370	4-TR812		
ED307572	3-D203	EI302233	4-IC601	ET354371	4-TR801		
ED307572	3-D204	EI332259	4-IC704	ET354371	4-TR802		
ED307572	3-D402	EI354951	3-IC401	ET354371	4-TR803		
ED307572	3-D403	EI368825M	4-X802	ET354371	4-TR804		
ED307572	3-D404	EI382660J	4-IC701	ET354371	4-TR805		
ED307572	4-D801	EI387938J	4-IC802	ET354371	4-TR807		
ED307572	4-D802	EI387938J	4-IC803	ET354371	4-TR816		
ED307572	4-D803	EI400756J	4-IC702	ET356336	4-TR817		
ED307572	4-D804	EI400756J	4-IC703	ET356437	3-TR101		
ED307572	4-D805	EI405327J	4-X801	ET366365	4-TR754		
ED307572	4-D806	EI408672J	4-IC804	ET366365	4-TR756		
ED307572	4-D807	EI408673J	3-IC101	ET366581	4-TR758		
ED307572	4-D808	EI408674J	3-X101	ET369248	4-TR810		
ED307572	4-D813	EI408675J4	4-IC801	ET373025	4-TR752		
ED307572	4-D815	EI408814M	3-X401	ET373392	4-TR809		
ED307572	4-D822	EJ359031	3-TM1	ET394735J	3-TR202		
ED329058	4-D768	EJ393745J	6-4	ET394735J	4-TR501		
ED337990	4-D760	EJ394417J	7-3	ET394735J	4-TR601		
ED346531	4-D764	EJ408670J	4-J11B	ET396072J	3-TR408		
ED346534	4-D701	EJ408671J	4-J11A	ET397160J	3-TR102		
ED346534	4-D702	EM408409J	5-IN851	ET397160J	3-TR402		
ED346559	4-D755	EO352089	3-T204	ET397160J	4-TR512		
ED346560	4-D756	EO353588	3-L301	ET397160J	4-TR612		
ED351418	4-D763	EO353588	3-L302	ET397160J	4-TR757		
ED367576	3-D401	EO357539	3-L101	ET397160J	4-TR759		
ED370786	3-D405	EO363279	3-T203	ET401091J	4-TR818		
ED372893	3-D201	EO408687J	3-T205	ET401091J	4-TR819		
ED372893	3-D202	EO408689M	3-T101	ET411995J	5-HS851		
ED389688J	3-D406	EO408808M	3-T201	EV356576	3-VR102		
ED397289J	4-D821	EO408809M	3-T202	EV356576	3-VR103		
ED410423J	5-D861	ER318647	3-R425	EV358829	3-VR101		
ED410423J	5-D862	ER324184	3-R107	EW408678J	4-W1		
ED511907	4-D751	ER326169	4-R764	EW408679J	4-W2		
ED511907	4-D752	ER333387	3-R108	EW408682J1	4-W3		
ED511907	4-D753	ER365753	4-R809	EW408683J	4-W4		
ED511907	4-D754	ER386215J	4-R751	EW408684J	4-W5		
ED511907	4-D757	ER386215J	4-R752	EW408816J2	5-W854		
ED511907	4-D758	ER386215J	4-R759	EW408817J2	5-W852		
ED511907	4-D759	ER408692J	4-R765	EW408817J2	5-W853		
ED511907	4-D761	ES362883	4-TS801	EZ412448J	4-BT801		
ED511907	4-D762	ES394818J	5-TS851	SA394136M	6-8		
ED511907	4-D765	ES394818J	5-TS852	SA407840M	6-1		
ED511907	4-D766	ES394818J	5-TS853	SB407961M1	6-11		
ED511907	4-D767	ES394818J	5-TS854	SB407962M1	6-12		
ED511907	4-D814	ES394818J	5-TS855	SB407965M	6-13		
ED624903	5-D851	ES394818J	5-TS856	SB407966M	6-14		
ED624903	5-D852	ES394818J	5-TS857	SE407956M1	6-7		
ED624903	5-D853	ES394818J	5-TS858	SE411719M	6-6		
ED624903	5-D854	ES394818J	5-TS859	SM409218J	6-9		
ED624903	5-D855	ES394818J	5-TS860	SP407980M1	6-15		
ED624903	5-D856	ES394818J	5-TS861	SP411712M	6-2A		
ED624903	5-D857	ES394818J	5-TS862	SP411713M	6-2B		
EE394420M1	7-1	ET337759	3-TR401	SP411714M	6-2C		
EE396107M	7-2	ET349458	3-TR201	SP411718J	6-5		
EE408686J	3-FE101	ET353897	3-TR203	SZ407909M	6-17		
EH338338	3-FL102B	ET353897	4-TR806	ZS394412J	6-3		
EH338338	3-FL103B	ET353897	4-TR811	ZS394414J	6-16		
EH364919	4-IB801	ET353897	5-TR851	ZW340648	6-10		

ABBREVIATIONS (TUNER)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi pleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMPalator	PCB	Printed Circuit Board
DET	DETect (DETctor)	PLL	Phase Locked Loop
FLD	FLuorescent Display	Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	Hight	RF	Radio Frequency
HPF	Hight Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emiting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Cscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	Crystal

PHONO
AUX
VCR PB
VCR REC
J11A
IC701 BA15218 RIAA EQ AMP
IC501 MC14051 (INPUT SELECT)
IC502 MC14053 (SOURCE DIRECT & REC OUT)
IC702 NJM4558L
IC703 NJM4558L
TR501
H:ON
TR502
MUTE
L-CH GEQ ON
L-CH GEQ OFF
GND
R-CH GEQ ON
R-CH GEQ OFF
J5
TO EA-770
VCR REC OUT
TAPE DECK REC OUT
IC704 MC14052 (SUPER BASS SW)
TR512
SUPER BASS EQ
AC17V
VF
CLK
DO
DI
IC803 74LS05
-25V (VP)
+5V
TR810
TR818~9
TO J1
TR808
MUTE
W851
W5
W1
W2
W3
TO PA-770/970
TO HX-770/970
TO CD-770
LED (POW)
LED (MUTE)
MUTE (POW)
POWER SW
L-CH OUT
R-CH OUT
VF (AC 4V)
VR UP
VR DOWN
AC 5V
AC GND
AC 17V
L-CH PB
L-CH REC
R-CH PB
R-CH REC
BUS CLK
BUS D.OUT
BUS D.IN
L IN
R IN
TR801
TR802
TR803
TR804
TR805
TR806
TR807
TR808
TR809
TR810
TR811
TR812
TR815
TR816, 817
BUFFER
TR851
TR752
+12V REG
TR753, 754
-12V REG
TR755, 756
-25V REG
DOUBLE VOLTAGE RECTIFIER
TR757, 758
+5V REG
TO J5
TAPE CLK
TAPE DATA OUT
TAPE DATA IN
CD CLK
CD DATA OUT
CD DATA IN
IC802 74LS05
POWER DET
D861
SUPER BASS
D862
SOURCE DIRECT
IC801 M38173M6 (SYSTEM CONTROL)
K0
VR UP
VR DOWN
P20
P.MUTE
MU.LED
PO.LED
FLD ON/OFF
GEQ CLK
GEQ DATA OUT
GEQ DATA IN
A.MUTE
SB
SD
G1
G2~G10
P1~P20
K0, K1
REMOCON
RESET
IC804 S807
RESET PULSE
TS801
RESET
FA1
FA2
FA3
FB1
FB2
FB3
FC1
FC2
TO ANALOG SW CONTROL
CE
CLK
DATA
STRQ
IF COUNT REQUEST
ST IN
AUTO SEARCH STOP
FM AUTO
TU MUTE
TUNED
STEREO
WW101
WW102
W101
W102
FM ANTENNA
FM FRONT
FM TUNING
FM LOCAL OSC
+9V REQ
TR408
IC401 LM7000N (PLL FREQ. SYNTHESIZER)
SHIFT REGISTER LATCH
PROGRAMMABLE DIVIDER
IF COUNT CKT
FM IF
CONTROL PCB
TUNER PCB



TP-770
BLOCK DIAGRAM
NO.5-1 A601151M A1

RIAA AMP.
INPUT SELECTOR
BUFFER AMP.TOR
SOURCE DIRECT SW.
REC OUT SW.
J11A
PHONO
REC
VCR
PB
AUX
IC701 BA15218
IC501 MC140518
IC601 MC140518
IC702 NJM4558L
IC502 MC140538
IC602 MC140538
+12V
-12V
+8V
-8V
T.REC (R)
T.REC (L)
SEL.O (R)
G.EQO (R)
SEL.O (L)
G.EQO (L)
SIG.O (L)
SIG.O (R)
TUNER (L)
G (SIG)
TUNER (R)
W002
TO HX-770/970
W005
TO PA-770/970
W003
TO CD-770
W004
TO EA-770
W001
TO PA-770/970
JS119
JS103
D755 : HZ12B2L
D756 : HZ12B3L
D760 : HZ27-1L
D768 : HZ5C1L
D751, 752 : 1N4002
D753, 754
D757, 758, 759
D811, 812
TR751 2SD1944
TR752 2SD1944
TR753 2SA1317
TR754 2SB1185
TR755 2SA1317
TR756 2SB1185
TR759 2SC3330
TR760 2SA1317
TR761 2SA1317
D761, 762 : 1N4002
D765, 767
D814
TR801 DTC124E
TR802 DTC124E
TR803 DTC124E
TR804 DTC124E
TR805 DTC124E
TR806 DTC114E
TR811 DTC114ES
TR812 DTA124ES
TR757 2SC3330
PO.SW
LED PO.
LED MT.
PO MT.
VR DWN
VR UP
CONTROL PCB A6007A502B
INDICATED VOLTAGES WERE MEASURED DURING FM STEREO MODE.
B (POWER SUPPLY) LINE
AUDIO SIGNAL LINE (L-CH)
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF

SOURCE DIRECT SW.
REC OUT SW.

SUPER BASS

MUTE

TR501 : 2SC3792
TR502
TR601
TR602

TR511, 512 : 2SC3330
TR611, 612

IC502 MC14053B
IC602 MC14053B
IC703 NJM4558L
IC704 MC14052

IC801
M38173M6-155FP
MXA1TP4

TR809 DTC124XS
TR810 DTA114YS
TR807 DTC124ES
TR808 DTA124ES
IC804 S807
TS801 RESET

TR801 DTC124E
TR802 DTC124E
TR803 DTC124E
TR804 DTC124E
TR805 DTC124E
TR806 DTC114E
TR812 DTA124ES
TR811 DTC114ES
TR817 DTA114ES
TR816 DTC124ES
TR758 2SD1762
TR757 2SC3330
TR815 2SA1317 POWER SW

EXCEPT V

LED PO.
LED MT.
PO MT.
VR DWN
VR UP

TB801 RKC08S 47KX8

BT801

D761, 762 : IN4002
D766, 767
D814

D801~808
D813, 815 : 1SS131T

D807 : V U A C ONLY
D808 : V A C ONLY

V ONLY

TP
JS101

WW102 TO TUNER PCB W102
GND (SYS)
R
TUNED
STEREO
MUTE
FM/AUTO

FBA04HA 900
#FL106 V ONLY
JS125 : EXCEPT V

IC801

1	0V	21	0V	41	0V	61	-20.7V
2	0V	22	5.0V	42	-25.5V	62	-12.7V
3	0V	23	0V	43	-23.5V	63	-7.4V
4	0V	24	0V	44	-23.5V	64	-15.2V
5	5.1V	25	5.1V	45	-23.5V	65	-25.7V
6	5.4V	26	5.0V	46	-23.5V	66	-25.7V
7	5.4V	27	5.0V	47	-23.5V	67	-25.7V
8	5.4V	28	2.5V	48	-23.5V	68	-12.4V
9	5.1V	29	1.5V	49	-23.5V	69	-25.2V
10	5.0V	30	2.3V	50	-23.5V	70	-22.6V
11	5.0V	31	2.3V	51	-23.5V	71	-22.6V
12	5.0V	32		52	-9.2V	72	-12.5V
13	4.9V	33	5.0V	53	-25.5V	73	5.1V
14	4.9V	34	0V	54	0V	74	-6.1V
15	3.4V	35	4.6V	55	-25.5V	75	
16	0V	36	0V	56	-22.9V	76	4.7V
17	0V	37	0V	57	-15.2V	77	0V
18	5.4V	38	0V	58	-10.7V	78	0V
19	5.0V	39	0V	59	-23.2V	79	
20	5.0V	40	2.2V	60	-20.7V	80	0V

WW101 TO TUNER PCB W101
GND (12V)
STRQ
STIN
CE
CLK
DA
GND (12V)
+12V
+5.6V
GND (SYS)

W851 W852 W853 W854

D851 to D856 : 1S2473
D851
D852
D853
D854
D855
D856

TS859 DIRCT
TS862 T.ON
TS857 BAND
TS855 IN >
TS853 f UP
TS851 CH U
TS860 MEMO
TS861 PRG
TS858 TURB
TS856 IN <
TS854 f DN
TS852 CH DN

IN851
FLD 10-MT-44KK

HS851 GP1U58X

SUPER BASS
SOURCE DIRECT
D861
D862
TR851 DTC114E
R851 200 1/4W
R852 200

D861, 862 : SEL4914D

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF

WARNING: ⚠ AND [redacted] INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ ET [redacted] ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

FRONT PCB A6009A5010

TP-770
CONTROL & FRONT SCHEMATIC DIAGRAM

NO. 8-1 A601101M
A0

*	EXCLUDE Ⓥ	Ⓥ
FE101	FE337-A05	FE415-G10
FL102/103	SFE10.7MS2GK-A	SFE10.7MS3GK-A
R105	1K	1.8K

*3	EXCLUDE Ⓥ	Ⓥ
C107	0.01	0.0056
R109	9.1K	47K

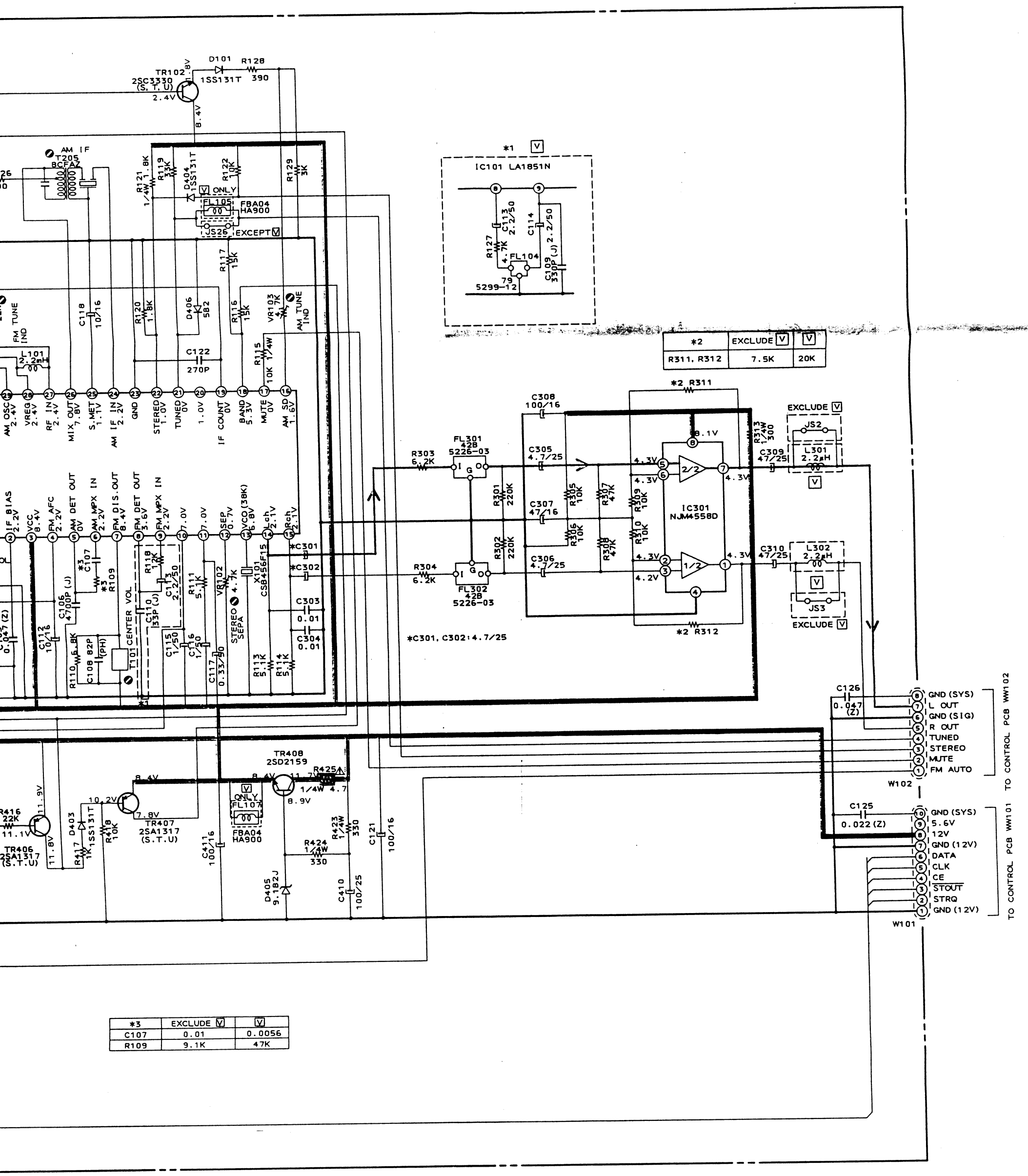
TUNER PCB A6007A502A

B (POWER SUPPLY) LINE

AUDIO SIGNAL LINE (L-CH)

WARNING: ⚠ AND ■ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ■, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



*2	EXCLUDE V	V
R311, R312	7.5K	20K

*3	EXCLUDE V	V
C107	0.01	0.0056
R109	9.1K	47K

WARNING: ⚠ AND [redacted] INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

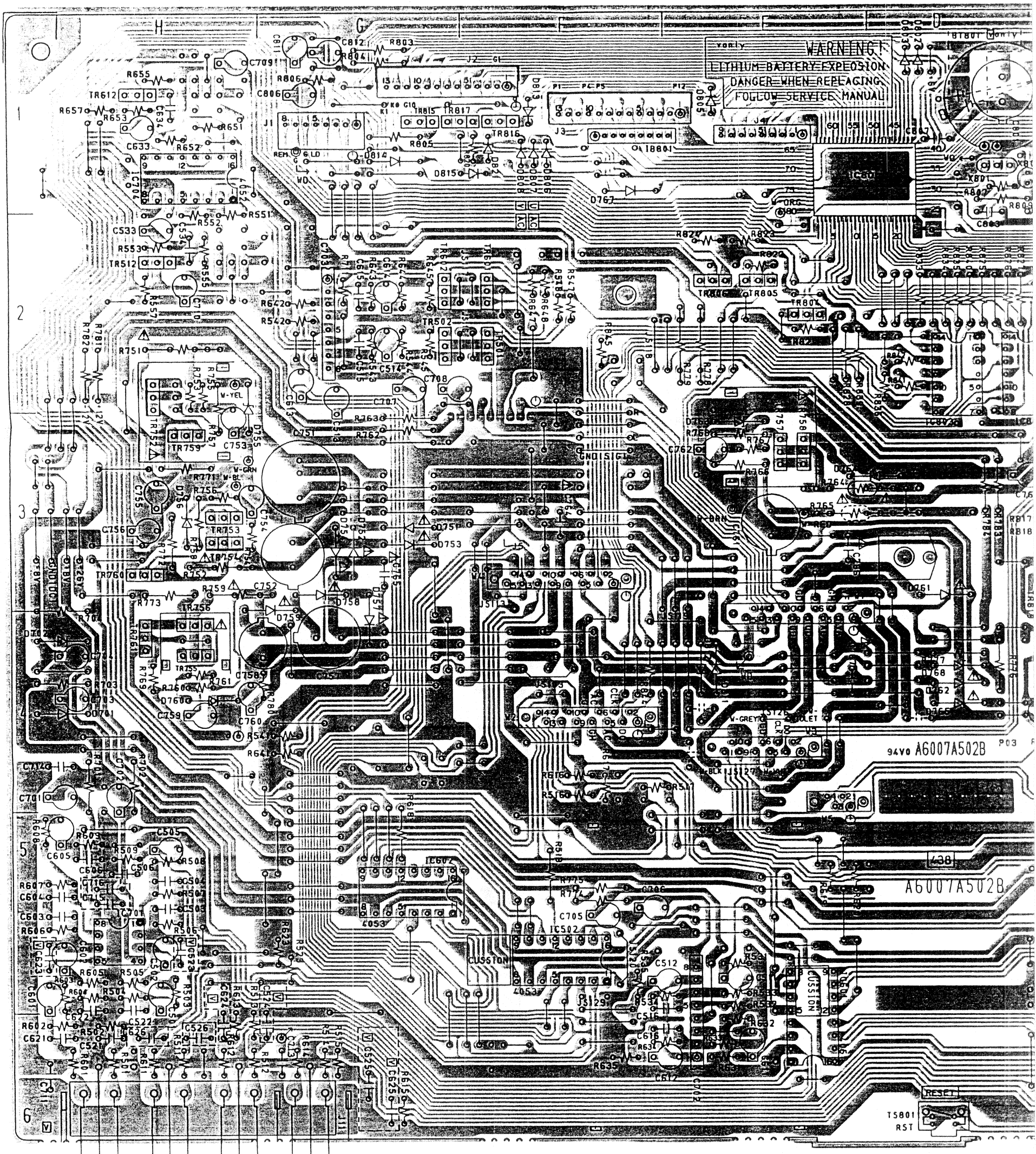
AVERTISSMENT: ⚠ ET [redacted], ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)

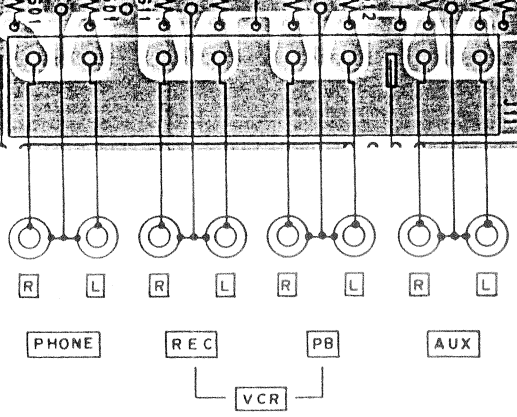
INDICATED VOLTAGES WERE MEASURED DURING FM STEREO MODE.

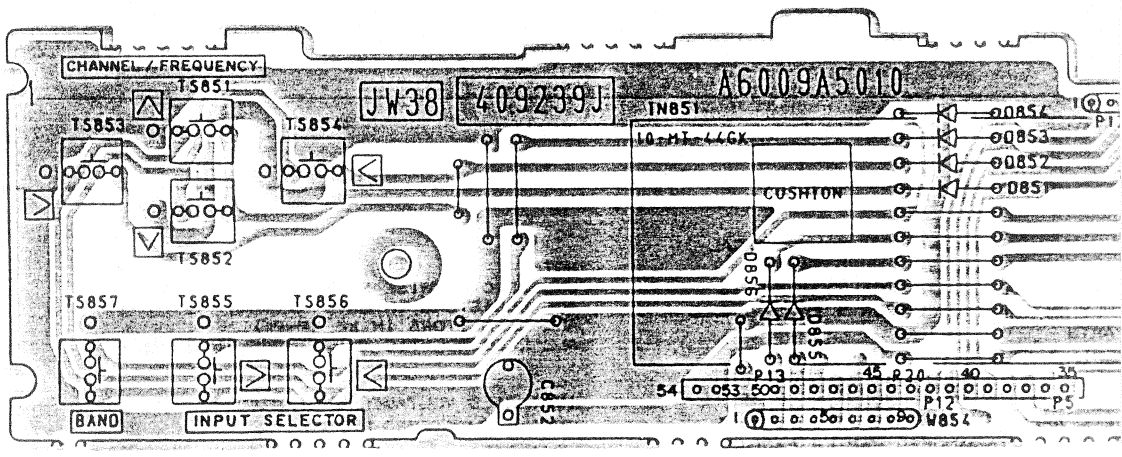
TP-770
TUNER
SCHEMATIC DIAGRAM

NO. 8-2 A601102M A1

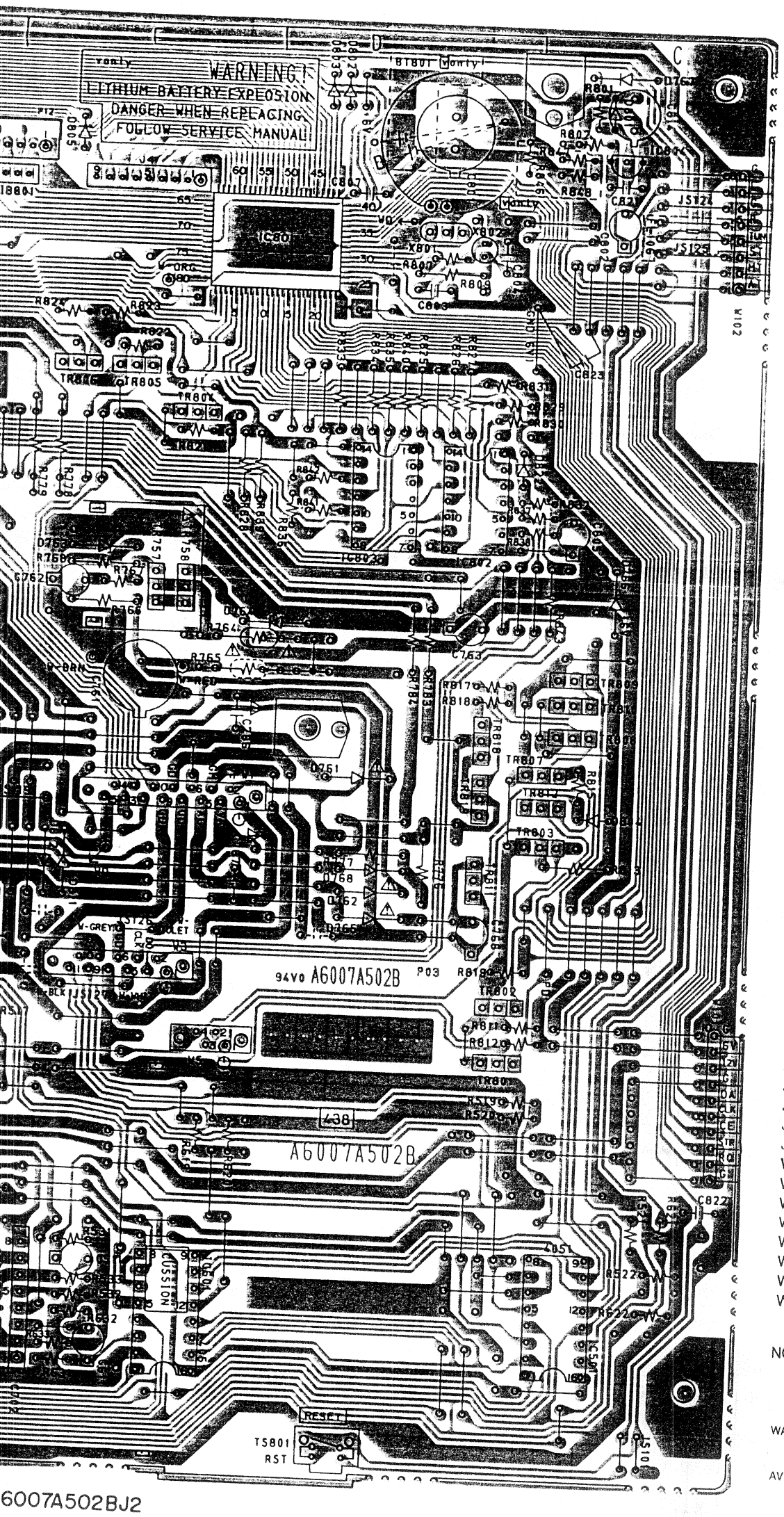


CONTROL PCB A6007A502BJ2





FRONT P



A6007A502BJ2

PRINCIPAL PARTS LOCATION

ICs

IC501 ..... C5,6
IC502 ..... F5
IC601 ..... E5,6
IC602 ..... G5
IC701 ..... H5
IC702 ..... E5,6
IC703 ..... G2
IC704 ..... H1
IC801 ..... D,E1
IC802 ..... D2,3
IC803 ..... D2,3
IC804 ..... C1

TRANSISTORs

TR501 ..... F2
TR502 ..... G2
TR512 ..... H2
TR601 ..... F2
TR602 ..... G2
TR612 ..... H1
TR752 ..... H2
TR753 ..... H3
TR754 ..... H3
TR755 ..... H4
TR756 ..... H4
TR757 ..... E3
TR758 ..... E3
TR759 ..... H3
TR760 ..... H3
TR761 ..... H4
TR801 ..... D5
TR802 ..... D4
TR803 ..... C4
TR804 ..... E2
TR805 ..... E2
TR806 ..... E2
TR807 ..... C3
TR808 ..... C3
TR809 ..... C3
TR810 ..... C3
TR811 ..... D4
TR812 ..... C4
TR815 ..... G1
TR816 ..... F1
TR817 ..... F,G1
TR818 ..... D3
TR819 ..... D3,4

CONNECTORs

J1 ..... G1
J2 ..... F,G1
J3 ..... F1
J4 ..... E1
J5 ..... F3
J11 ..... G,H6

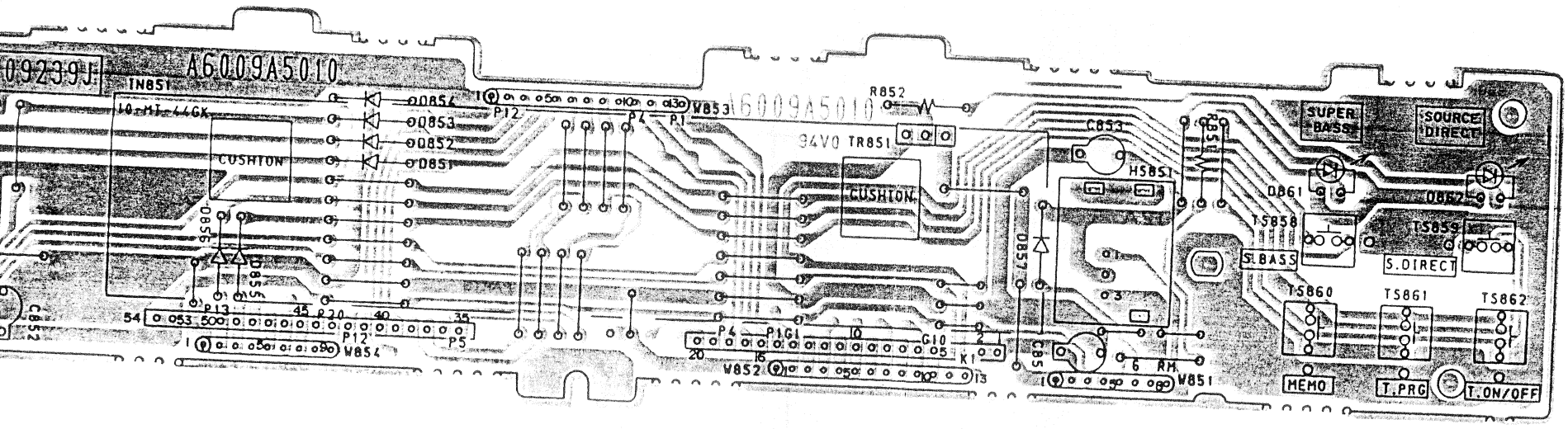
WIREs

W1 ..... E3,4
W2 ..... F4
W3 ..... E4
W4 ..... F3
W5 ..... F4
W101 ..... C5
W102 ..... C1

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



FRONT PCB A6009A5010